

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 November 2005 (17.11.2005)

PCT

(10) International Publication Number
WO 2005/109122 A1

(51) International Patent Classification⁷: **G05B 19/042**

Sta. Catalina St., SMH, 1114, Quezon City (PH). NIXON, Mark [US/US]; 1503 Blackjack Drive, Round Rock, TX 78681 (US).

(21) International Application Number:
PCT/US2005/015390

(22) International Filing Date: 4 May 2005 (04.05.2005)

(74) Agent: **HEPPERMAN, Roger, A.**; Marshall, Gerstein & Borun LLP, 233 S. Wacker Drive, 6300 Sears Tower, Chicago, IL 60606-6357 (US).

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/567,980 4 May 2004 (04.05.2004) US

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (for all designated States except US): **FISHER-ROSEMOUNT SYSTEMS, INC.** [US/US]; 12301 Research Blvd., Research Park Plaza Bldg. 111, Austin, TX 78759 (US).

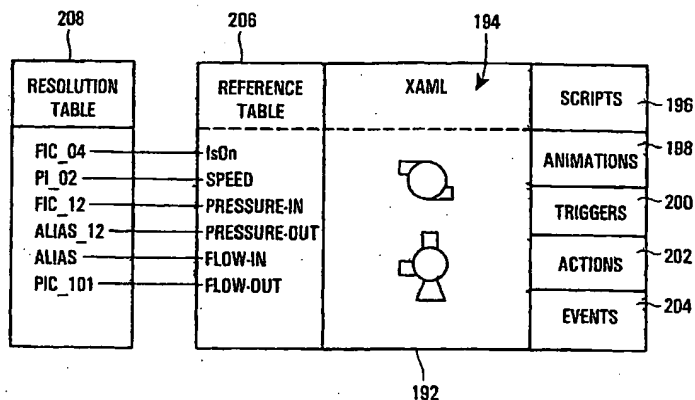
(72) Inventors; and

(75) Inventors/Applicants (for US only): **GILBERT, Stephen** [GB/US]; 10109 Mountain Quail Road, Austin, TX 78758 (US). **BEUGHTER, Ken, J.** [US/US]; 16917 Korat Lane, Round Rock, TX 78681 (US). **LUCAS, J., Michael** [GB/GB]; 7 Wales Orchard, Leire Lutterworth, Leicestershire LE17 5ES (GB). **HAO, Tennyson** [GB/PH]; 109

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

[Continued on next page]

(54) Title: GRAPHIC ELEMENT WITH MULTIPLE VISUALIZATIONS IN A PROCESS ENVIRONMENT



(57) Abstract: Smart graphic elements are provided for use as portions or components of one or more graphic displays, which may be executed in a process plant to display information to users about the process plant environment, such as the current state of devices within the process plant. Each of the graphic elements is an executable object that includes a property or a variable that may be bound to an associated process entity, like a field device, and that includes multiple visualizations, each of which may be used to graphically depict the associated process entity on a user interface when the graphic element is executed as part of the graphic display. Any of the graphic element visualizations may be used in any particular graphic display and the same graphic display may use different ones of the visualizations at different times. The different visualizations associated with a graphic element make the graphic element more versatile, at they allow the same graphic element to be used in different displays using different graphical styles or norms. These visualizations also enable the same graphic element to be used in displays designed for different types of display devices, such as display devices having large display screens, standard computer screens and very small display screens, such as PDA and telephone display screens.



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments